TITLE: APPARATUS AND METHOD FOR INDUCING EMOTIONS

INVENTOR(S): MIHEE LEE ET AL.

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Fig. 1

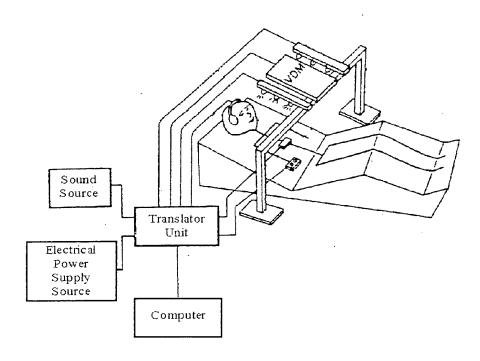
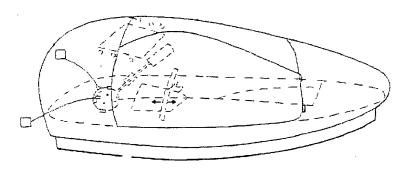


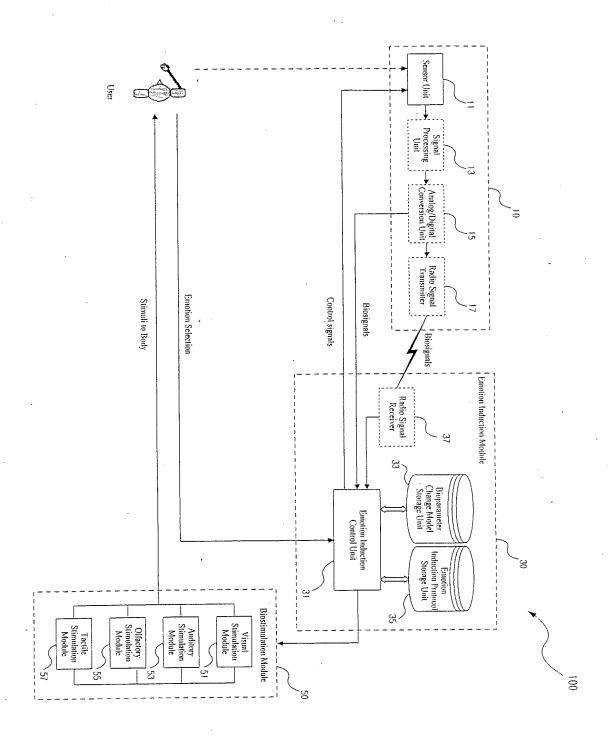
Fig. 2



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Fig. 3



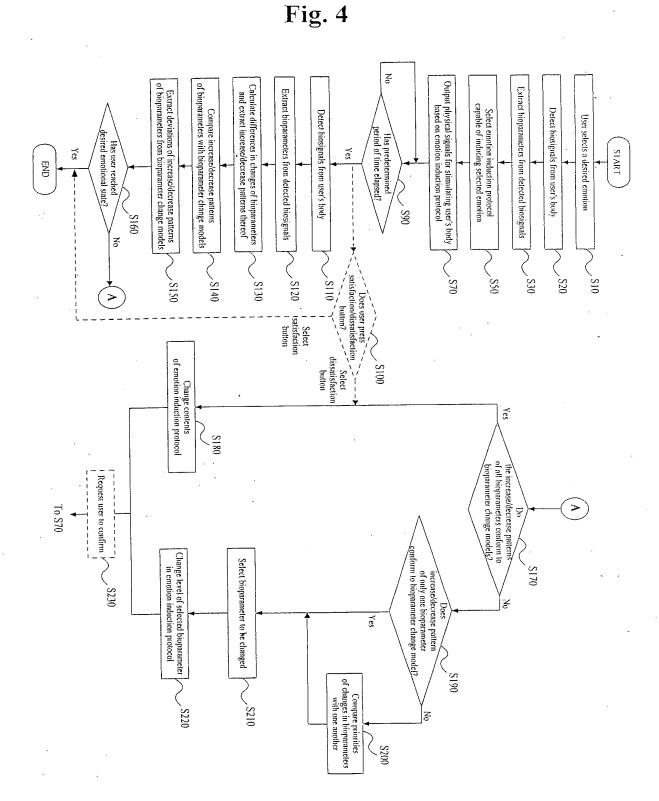
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Fig. 5

E	Pleasure	Sadness	Anger	Fear	Disgust	Surprise
Illumination	Orange	Blue	Red having	Cyan	Red	Combination of
	Yellow	Amber	high chroma	White	Magenta	complementary
·	Red having	Indigo		Black		colors
	high chroma	Gray		Blue baving		
	Vivid red	Black		low chroma		
Fragrance	Lilac, Rose,	Bergamot,	Jasmine,	Peppermint,	Peppermint,	Juniper,
	Grapefruit,	Orange,	Peppermint,	Basil, Neroli,	Basil, Neroli,	Rosemary,
	Jasmine,	Camomile	Juniper,	Bergamot,	Bergamot,	Frankincense
	Lavender,	roman,	Bergamot,	Lavender,	Lavender,	
	Melisa, Neroli,	Grapefruit,	Rosemary,	Sandalwood,	Sandalwood,	
	Palmarosa,	Lavender,	Frankincense,	Geranium,	Geranium,	
	Ylang-ylang,	Melisa, Neroli,	Cypress,	Hyssop,	Hyssop,	
	Ginger, Lemon,	Peppermint	Sandalwood,	Clarysage	Clarysage	'
	Pachouli,		Geranium	,		
	Teatree,					
	Camomile					
Contents	Cheer, Victory,	Koryo burial	Massacre,	Pursued,	Cut corpse,	Accident,
	Ргедпапсу,	practice, Death	Rape, Crueity	Strain, Gloomy	Disgusting	Sound effects
	Wedding	of parents,		atmosphere	animal, Blood	·
	ceremony	Parting			mess	

INVENTOR(S): MIHEE LEE ET AL.

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Fig. 6a

## Pleasure

Level	0
Illumination	Yellowish Red
Fragrance	Grapefruit
Temperature/Humidity	26°C/70%
Contents	Wedding Ceremony
Contents	Wedding Ceremony

#### HR

Level	-3	-2	-1	1	2	3
Illumination	Суап	Blue	Gray	Yeilow	Orange	Red
Fragrance	Sandalwood	Ylang-ylang	Paimarosa	Lavender	Lemon	Lemon
	+Ylang-ylang	+Palmarosa			+Lavender	+Lavender

## SCRM

Level	-3	-2	-1	1	2	3
Illumination	Cyan	Yellow	Blue	Pink	Orange	Red
Fragrance	Cypress	Bergamot	Rose	Jasmine ,	Jasmine +Lavender	Ylang-ylang
Temperature/Humidity	-3°C/15%	-2°C/10%	-1°C/5%	+1 ℃/5%	+2°C/10%	+3°C/15%

Level	-3	-2	-1	1	2	3
Illumination	Green	Сувп	Blue	Red	Yellow-based red	Pink
Fragrance	Valeric acid	Cypress +Jasmine	Cypress	Lavender	Orange +Lavender	Ylang-ylang +Lavender

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Fig. 6b

### Sadness

Levei	0
Illumination	Cyan
Fragrance	Bergamot
Temperature/Humidity	26°C/70%
Contents	Parting

### HR

Level	-3	-2	-1	1	2	3
Illumination	Cyan	Blue	Gray	Yellow	Orange	Red
Fragrance	Geranium	Cypress	Bergamot	Rose	Rose	Juniper
			· ·	,	+Jasmine	+Bergamot

### SCRM

Level	-3	-2	-1	1	2	3
Illumination	Суап	Amber	Blue	Pink	Orange	Red
Fragrance	Palmarosa +Ylang-ylang	Palmarosa +Bergamot	Rose	Bergamot	Bergamot +Lavender	Bergamot +Cypress
Temperature/Humidity	-3°C/15%	-2 C/10%	-1°C/5%	+1°C/5%	+2°C/10%	+3°C/15%

Level	-3	-2	-1	, 1	2	3
Illumination						
Fragrance				l		

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Fig. 6c

#### Anger

Level	0	
Illumination	Red	
Fragrance	Peppermint	
Temperature/Humidity	26℃/70%	_
Contents	Rape	

#### HR

Level	-3	-2	,-1	1	2	3
Illumination	White	Blue	Gray	Yellow-based red	Orange	Red
Fragrance	Sandalwood +Ylang-ylang	Cypress +Sandalwood	Cypress	Pheromone	Juniper	Juniper

## SCRM

Level	-3	-2	-1	1	2	3
Illumination	Суап	Yellow	Yellowish green	Pink	Black	Red
Fragrance	Cypress +Geranium	Cypress	Jasmine	Juniper	Juniper	Juniper
Temperature/Humidity	-3 C/15%	-2 C/10%	-1 °C/5%	+1℃/5%	+2℃/10%	+3℃/15%

Level	-3	-2	-1	1	2	- 3
Illumination	Green	Yellowish green	Blue	Red	Violet	Pink
Fragrance	Jasmine +Cypress	Cypress	Rose	Ylang-ylang	Lavender +Ylang-ylang	Lemon +Ylang-ylang

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Fig. 6d

Fear

Level	0
Illumination	White
Fragrance	Peppermint
Temperature/Humidity	26 C/70%
Contents	Gloomy place

HR

Level	-3	-2	-1	1	2	3
Illumination	Cyan	Blue	Gray	Red	Blue-based green	Black
Fragrance	Sandalwood +Ylang-ylang	Cypress +Sandalwood	Cypress	Caraway	Juniper	Juniper

SCRM

Level	-3	-2	-1	1	2	3
Illumination	Cyan	Yellow	Blue	Blue-based green	Black	Red
Fragrance	Lemon +Ylang-ylang	Ylang-ylang	Ylang-ylang +Jasmine	Juniper	Juniper	Juniper
Temperature/Humidity	-3℃/15%	-2°C/10%	-1℃/5%	+1 ℃/5%	+2°C/10%	+3°C/15%

Levei	-3	-2	-1	1	2	3
Illumination	Green	Cyan	Blue	Red	Magenta	Blue-based green
Fragrance	Geranium +Sandalwood	Rose +Sandalwood	Ylang-ylang	Clinical reagent	Peppermint	

Appln. Filing Date: June 26, 2003 Title: apparatus and method for inducing emotions

**INVENTOR(S):** MIHEE LEE ET AL.

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Fig. 6e

## Disgust

Level	0
Illumination	Magenta
Fragrance	Peppermint
Temperature/Humidity	26℃/70%
Contents	Cut corpse

### HR

Level	-3	-2	-1	1	2	3
Illumination	Cyan	Blue	Gray	Yellow	Orange	Red
Fragrance	Sandaiwood +Ylang-ylang	Cypress +Sandalwood	Cypress	Pheromone	Juniper	Juniper

### SCRM

Level	-3	-2	-1	1	2	3
Illumination	Суап	Gray	Blue	Pink	Yeilow	Red
Fragrance	Lemon +Ylang-ylang	Lavender +Ylang-ylang	Apple	Juniper	Juniper	Juniper
Temperature/Humidity	-3℃/15%	-2 C/10%	-1 T/5%	+1°C/5%	+2°C/10%	+3°C/15%

Level	-3	-2	-1	1	2	3
Illumination	Green	Cyan	Blue	Red	Violet	Pink
Fragrance	Geranium	Rose	Ylang-ylang	Clinical	Peppermint	
	+Sandalwood	+Sandalwood		reagent		

INVENTOR(S): MIHEE LEE ET AL.

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Fig. 6f

# Surprise

Level	0 .
Illumination	Contrast of complementary colors
Fragrance	Rosemary
Temperature/Humidity	26℃/70%
Contents	Accident

### HR

Level	-3	-2	-1	1	2	3
Illumination	Cyan	Blue	Gray	Yellow	Orange	Red
Fragrance	Palmarosa	Ylang-ylang	Palmarosa	Juniper	Juniper	Juniper
	+Ylang-ylang					

### SCRM

Level	-3	-2	-1	1	2	3
Illumination	Cyan	Blue-based green	Blue	Pink	Black	Red
Fragrance	Lemon	Mulberry	Lavender	Juniper	Privet	
Temperature/Humidity	-3°C/15%	-2°C/10%	-1 C/5%	+1℃/5%	+2°C/10%	+3°C/15%

Level	-3	-2	-1	1	2	3
Illumination	Gray	Суап	Blue	Red	Yellow	Pink
Fragrance	Bergamot +Cypress	Bergamot	Cypress	Juniper	Juniper	Juniper

**INVENTOR(S):** MIHEE LEE ET AL.

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**Fig.** 7

Total	HR	SCRM	HRV
Pleasure	Ð.	1	Û
Sadness	₽-	ਹਿ	
Anger	1	<b>1</b>	£.
Fear	-C	1	Û
Disgust	1	ਿੰ	Û
Surprise	4	1	<b>1</b>

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Fig. 8

<HR>

					•				
Bioparameter change model	<del></del>			Û	Û	Û	Û	Û	Û
Increase/decease pattern of bioparameter		Û	Û		Û	Û		Û	Û
Deviation d <sub>0</sub>	. 0	-1	1	1	0	1	-1	-1`	0

<SCRM>

Bioparameter change model				Û	Û	Û	Û	Û	Û
Increase/decease pattern of bioparameter		Û	Û		Û	Û		Û	Û
Deviation d <sub>1</sub>	0	-1	1	1	0	1	-1	-1	0

<HRV>

Bioparameter change model				ĵ	Û,	Û	Û	Û	Û
Increase/decease pattern of bioparameter		Û	Û		Û	Û		Û	Û
Deviation d <sub>2</sub>	. 0	-1	1	1	0	1	-1	-1	0

Fig. 9

	Pleasure	Sadness	Anger	Fear	Disgust	Surprise
First ranking	SCRM	HR	SCRNI	SCRM	HR	HRV
Second ranking	HRV	SCRM	HR	HR	HRV	SCRM
Third ranking	HR	HRV	HRV	HRV	SCRM	HRV